All-Terrain Vehicle Safety

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INCE THEIR introduction, the use of all-terrain vehicles (ATVs) has increased dramatically each year. In addition to widespread recreational use, the agricultural sector has realized the value of the ATV as a workhorse. Unfortunately, fatalities and injuries involving ATVs are occurring at an alarming rate. Knowing and following a few steps for safe ATV use could have prevented many of these needless accidents.

Protective Gear

The nature of ATV riding demands that you wear protective clothing. Knowing what to wear and how to wear it can reduce the chance of an injury and make you more comfortable when you ride. The following protective gear should be worn every time you ride an ATV:

- Helmet—your helmet is the most important piece of protective gear for safe riding. A helmet can help prevent a serious head injury. Selecting the right helmet is important and easy if a few basic tips are kept in mind. Select a helmet that bears the label of the Department of Transportation, the American National Standards Institute or the Snell Memorial Foundation. The helmet should fit snugly and be securely fastened. Full-face helmets protect your face as well as your head. Open-face types are lighter and cooler, but should be used with a chin guard that will offer chin and mouth protection.
- Eye protection—eye protection is a must. If an object hits you in the face, such as a rock, branch or even a bug, it will distract you and may cause blindness if it hits you in the eyes. Regular sunglasses do not provide adequate protection. The helmet's face shield or a pair of riding goggles will protect your eyes properly. Select well-ventilated goggles that can be securely fastened and are free from scratches.
- Gloves—gloves provide protection from abrasions and help to keep your hands from getting sore, tired or cold. Off-road style motorcycle gloves provide a good combination of protection and comfort.
- **Boots**—at a minimum, riders should wear a pair of boots that lace above the ankle for ankle support, with low heels to help prevent the boot from slipping off the footrests.
- **Shirt and pants**—at a minimum, a long-sleeved shirt and long pants should be worn to reduce abrasions on the body.

Pre-ride Inspection

Inspecting the mechanical condition of your ATV before each day's use is important for minimizing the chances of injury or becoming stranded. The fact that you can ride farther in an hour than you can walk in a day emphasizes the need to maintain your ATV in peak operational form. The owner's manual should be used to ensure proper understanding of all critical points on your machine.

Check the following components before using your ATV:

- Tires—always maintain the recommended tire pressure consistently in each tire. If the tires on your ATV have unequal pressure, the ATV will pull toward the tire with the least air pressure gauges will not accurately mea-sure the low pressure typically used in ATV tires. A gauge designed for low pressure should be used. Wheel lug nuts should be checked to make sure they are tight. Grasp each tire at the front and rear, and then try to rock the tire on its axle to check for worn-out axle bearings and loose nuts. Always use a torque wrench while following the tightening procedures and specifications for all fasteners outlined in your operator's manual.
- Throttle—Check throttle operation while moving the handle bars fully to the left and then fully to the right. An accumulation of mud and dirt can restrict cable movement and prevent the throttle from closing.
- Brakes—Your brakes are a crucial part of riding and they
 must always be in top condition. Make sure they work
 smoothly and that they are in adjustment according to the
 instructions in the owner's manual.
- **Light and switches**—Be sure all lights are working. Check engine stop switches by switching them off and on during the warm-up period.
- Oil and fuel—Check the oil and fuel with the engine off. Look for fuel or oil leaks.
- Drivetrain and chassis-Inspect your chain for proper adjust ment, adequate lubrication and signs of wear. If your ATV is equipped with a drive shaft rather than a chain, check for oil leaks and maintain its oil supply as outlined in your owner's manual. Rough terrain will loosen chassis parts. Look and feel for loose parts while the engine is off. Shake handlebars, footrests and other similar components before each ride, and periodically check major fasteners with a wrench. The operator's manual should be read and under stood before attempting to operate your ATV. It will contain specifications and procedures that apply directly to your model and should be considered as the final authority for safe operation of your ATV. Such information may include tire inflation pressures, torque specifications for fasteners, oil types and service intervals, battery maintenance, or brake adjustment and service.

Operating Your ATV

Turns—most ATVs have solid rear axles, which turn each of the rear wheels at the same speed. This requires special turn ing skills, which primarily involve shifting your body weight. Low-speed turns require that you shift your body weight for ward and to the outside of the turn as you turn the handlebar. The objective is to reduce weight on the inside rear wheel. For

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front end of the ATV to rise. Caution should be used not to expect more from your ATV than it can safely provide.

Whenever equipment is added, counterweights can be used to offset the load and improve the new balance of your machine. Be careful not to exceed the weight limitations set forth by the ATV manufacturer. Remember, just because your ATV can pull a heavy load does not mean it can safely stop it.

Additional equipment may also require additional protective gear for the operator. Examples of this include protection from objects thrown by a mower and chemical protection from the drift of sprayers.

Training Course

Four major U.S. ATV distributors established the Specialty Vehicle Institute of America (SVIA) in 1983 to support the safe and responsible use of ATVs. Current membership includes Arctic Cat, Bombardier, Honda, KTM, Kawasaki, Suzuki and Yamaha, the leading U.S. distributors of all-terrain vehicles. In 1988 the SVIA formed a new division, the ATV Safety Institute (ASI), to expand the availability of the ATV *RiderCourse*.

ASI offers free training to purchasers of new ATVs and their eligible immediate family. The ATV *RiderCourse* is a half-day, hands-on safety training program. The program includes pre-ride inspections, starting and stopping, turning, operation on hills, emergency stopping and swerving, and riding over obstacles. It also covers protective riding gear, environmental concerns, local laws, and safety techniques. The training course is taught by licensed instructors at hundreds of locations across the United States.

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Heritage

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launch the organization. ABI, the current membership organization for the Natural Heritage Network, is restructuring itself to become the new organization. This new arrangement will overcome the problems currently encountered by the fragmented responsibilities of ABI, The Nature Conservancy, and individual Network programs in developing, managing, and aggregating Network data. More importantly, it will place leadership for the Network in the hands of an organization dedicated solely to furtherance of the Network and the application of Heritage data to biodiversity conservation. If you would like to know more about the Natural Heritage Program in Alabama contact:

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To learn more about the Natural Heritage Network, check out the Web site at www.hertitage.tnc.org.

